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	Approved For Release 2003/05/14 : CIA-RDP78B05171A000600020163-2	
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5X1 5X1	MEMORANDUM FOR: Deputy Director for Intelligence SUBJECT: Proposed Contract with for a Precise Measurement Study at a Cost of	25X1
	1. This memorandum requests approval for the commitment of funds for a contract. The specific request is stated in Paragraph 6. 2. A fundamental understanding of the errors which occur in the photographic measurement process is essential to NFIC. Errors can result from many sources and are of many different magnitudes. Come occur during the acquisition process itself, due to the geometric characteristics of the camera or the attitude of the taking vehicle. Others occur during the film processing phase, while still others result from the actual measuring on the film. These errors are due to special characteristics of the measuring equipment and from the procedures utilized during the measuring process. Knowledge of these errors is important for three reasons. First, measurements are an integral part of the imagery interpretation process; without reliable measurements, errors in interpretation are possible—measuration provides objective data to reinforce the essentially subjective process of imagery interpretation. Second, we need to be able to place limits of reliability on our accuracy so that analysts and other users of MFIC reports will know to what extent they can trust the data they work with. Third, if we are to build measuring equipment which is cost effective, and is no more accurate nor expensive than is necessary to fulfill our mission, we must be able to isolate and to understand the major error factors involved. The final mensuration process should be truly commensurate with the limitations of the materials being measured, the human performing the mensurations, and the requirements that the extracted data is ultimately to fulfill. 3. This Precise Measurement Study is designed to isolate these major error factors. Separate elements of the problem have been analyzed previously; however, the problem has never before been tackled in this entirety. All pertinent data from earlier work will be utilized in this	· · · · · · · · · · · · · · · · · · ·

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6. It is requested that approval be	tol s contract to mark-
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AR	THUR C. LUNDAHL
	Director graphic Interpretation Center
Eational Finding	TENIE THOUSANDER
Attachments: (3) 1. Catalog Form	
2. Staff Study	
3. Autometric Proposal	
APPROVED:	Date
Deputy Director for intellig	
Distribution:	
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